

Amendment and Response
Application No. 10/615,895
CPW-001
Page 2 of 7

Amendments to the Claims:

Please amend the claims to read as follows:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Currently amended) The stator coil group of claim 5 14 wherein the longitudinal sections of the first and second inner coils have ends, at least one of the first plurality of inner coils and the second plurality of inner coils having a pair of step bends at each end of the respective longitudinal sections.
8. (Canceled)
9. (Currently amended) The stator coil group of claim 8 14 wherein one of the coil sets is in parallel electrical communication with one of the other coil sets.
10. (Currently amended) The stator coil group of claim 8 14 wherein the longitudinal sections of the first and second outer coils have ends, at least one of the first plurality of outer coils and the second plurality of outer coils having a pair of step bends at each end of the respective longitudinal sections.
11. (Canceled)
12. (Canceled)

Amendment and Response
Application No. 10/615,895
CPW-001
Page 3 of 7

13. (Canceled)

14. (New) A stator coil group for an electromotive machine comprising:

a plurality of first inner coils, each first inner coil having a pair of longitudinal sections, a pair of circumferential sections and a thickness, each of the longitudinal sections and the circumferential sections of the first inner coils being disposed at a first radial distance from a cylindrical axis, the longitudinal sections and circumferential sections of each first inner coil defining a substantially rectangular opening therein; and

a plurality of second inner coils, each second inner coil having a pair of longitudinal sections, a pair of circumferential sections and a thickness, each of the longitudinal sections of the second inner coils being disposed at the first radial distance from the cylindrical axis and each of the circumferential sections of the second inner coils being disposed at a second radial distance from the cylindrical axis, the longitudinal sections and circumferential sections of each second inner coil defining a substantially rectangular opening therein, one of the longitudinal sections of each first inner coil being at least partially disposed in the rectangular opening of an adjacent one of the second inner coils and one of the longitudinal sections of each second inner coil being at least partially disposed in the rectangular opening of an adjacent one of the first inner coils, each of the first inner coils being in serial electrical communication with a respective one of the second inner coils to form a coil pair;

a plurality of first outer coils, each first outer coil having a pair of longitudinal sections, a pair of circumferential sections and a thickness, each of the longitudinal sections of the first outer coils being disposed substantially in contact with respective longitudinal sections of the first and second inner coils at a third radial distance from the cylindrical axis wherein the third radial distance exceeds the first radial distance, the longitudinal sections and circumferential sections of each first outer coil defining a substantially rectangular opening therein; and

a plurality of second outer coils, each second outer coil having a pair of longitudinal sections, a pair of circumferential sections and a thickness, each of the longitudinal sections of

Amendment and Response
Application No. 10/615,895
CPW-001
Page 4 of 7

the second outer coils being disposed substantially in contact with respective longitudinal sections of the first and second inner coils at the third radial distance from the cylindrical axis, the longitudinal sections and circumferential sections of each second outer coil defining a substantially rectangular opening therein, one of the longitudinal sections of each first outer coil being at least partially disposed in the rectangular opening of an adjacent one of the second outer coils and one of the longitudinal sections of each second outer coil being at least partially disposed in the rectangular opening of an adjacent one of the first outer coils, each of the second outer coils being in serial electrical communication with one of the first inner coils, one of the second inner coils and one of the first outer coils to form a coil set.

15. (New) The stator coil group of claim 14 wherein the longitudinal sections of the first and second outer coils are in contact with respective longitudinal sections of the first and second inner coils through an insulating layer.